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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/087,297	03/01/2002	Barry S. Katz	04.0152	2121	
30948	7590 06/20/2006		EXAM	EXAMINER	
CLOCK TOWER LAW GROUP			PHAN, 1	PHAN, THAI Q	
2 CLOCK TOWER PLACE, SUITE 255 MAYNARD, MA 01754-2545			ART UNIT	PAPER NUMBER	
			2128	 	
			DATE MAILED: 06/20/2006	DATE MAILED: 06/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/087,297	KATZ ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Thai Phan	2128			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim iiii apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
 Responsive to communication(s) filed on <u>15 March 2006</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Dispositi	on of Claims					
 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-27 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicati	on Papers					
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on 29 April 2002 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	☑ accepted or b)☐ objected to the drawing(s) be held in abeyance. See for is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s) e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notic 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da				

DETAILED ACTION

This Office Action is in response to applicants' amendment filed on 03/15/2006.

Claims 1-27 are pending in the Action.

Drawings

Drawings filed on 04/29/2002 are acceptable for examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1- 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Iwasaki et al, US patent no. 5,623,417.

As per claim 1, Iwasaki anticipates a method and system for functional analysis or simulation of a circuit design with feature limitations very identical to the claimed invention. According to Iwasaki, the simulation method includes

Providing a description of a physical design having physical components, signal transfer between them, component identification, and components connectivity in the design environment (Figs. 2, 3, col. 1, lines 10-15, col. 4, lines 35-46, and cols. 9, 10 for general description),

Application/Control Number: 10/087,297

Art Unit: 2128

Providing a signal transfer description from source to destination (col. 4, lines 35-46, col. 12, line 64 to col. 13, line 67),

Providing a signal transfer description as corresponding to at least a portion of the physical connectivity (see above and also in col. 13, lines 30-67, for example),

And using the signal or data transfer description to construct computer simulation/analysis of the connected functional components for verification of the functional design in the physical design system (col. 1, lines 10-15, col. 8, lines 49-60, col. 11, lines 5-35, col. 12, lines 30-49).

As per claim 2, Iwasaki anticipates a logical pin definition including pin names of the identified component (cols. 12-13).

As per claim 3, Iwasaki anticipates part identifications or identified modules in the library for the design and design interface, and verification (cols. 1, 4-5).

As per claims 4-12, Iwasaki anticipates the claimed limitations for the design verification and design interface in the simulation.

As per claim 13, Iwasaki anticipates a method and system for functional analysis or simulation of a circuit design with feature limitations very identical to the claimed invention. According to Iwasaki, the simulation system includes means

Providing a description of a physical design having physical components, signal transfer between them, component identification, and components connectivity in the physical design and functional design interface of the physical system (Figs. 2, 3, col. 1, lines 10-15, cols. 4, 9, 10),

Application/Control Number: 10/087,297

Art Unit: 2128

Providing a signal transfer description from source to destination (col. 12, line 64 to col. 13, line 67),

Providing a signal transfer description as corresponding to at least a portion of the physical connectivity (col. 13, lines 30-67, for example),

And using the signal or data transfer description to construct computer simulation/analysis of the connected functional components for functional design verification within the physical design system (col. 1, lines 10-15).

As per claim 14, Iwasaki anticipates the physical components including logical pin definition, logical pin names such as inverter, enabling, etc.

As per claims 15-24, Iwasaki anticipates the claimed limitations for design verification and simulation.

As per claims 25 and 26, Iwasaki anticipates a computerized implementation method and system for functional analysis or simulation of a circuit design with feature limitations very identical to the claimed invention. According to Iwasaki, the simulation system includes means and program instructions implemented in the simulator:

Providing a description of a physical design having physical components, signal transfer between them, component identification, and components connectivity of the physical components (Figs. 2, 3, col. 1, lines 10-15, cols. 4, 9, 10),

Providing a signal transfer description from source to destination (col. 12, line 64 to col. 13, line 67),

Providing a signal transfer description as corresponding to at least a portion of the physical connectivity (col. 13, lines 30-67, for example),

Application/Control Number: 10/087,297

Art Unit: 2128

And using the signal or data transfer description to construct computer simulation/analysis of the connected functional components for functional design verification.

As per claim 27, Iwasaki anticipates a method and system for functional analysis or simulation of a circuit design with feature limitations very identical to the claimed invention. According to Iwasaki, the simulation system includes means

Providing a description of a physical design having physical components, signal transfer between them, component identification, and components connectivity (Figs. 2, 3, cols. 4, 9, 10),

Providing a signal transfer description from source to destination (col. 12, line 64 to col. 13, line 67),

Providing a signal transfer description as corresponding to at least a portion of the physical connectivity (col. 13, lines 30-67, for example),

Identifying a physical component corresponding to a source node in the data or signal transfer description (col. 5, lines 43-67, cols. 8-12),

Identifying a set of pins for the identified physical component corresponding to the source node (cols. 6-13),

And using the signal or data transfer description to construct computer simulation/analysis of the connected functional components for functional design verification.

Application/Control Number: 10/087,297 Page 6

Art Unit: 2128

Response to Arguments

Applicant's arguments filed 03/15/2006 have been fully considered but they are not persuasive.

In response to applicants' argument Iwasaki does not disclose a physical design, the examiner likes to respond Iwasaki discloses such feature in the design higher environment (col. 1, lines 10-15). Iwasaki considers the physical design interface was present for the function design interface.

In response to applicants' argument Iwasaki does not disclose component connectivity as argued in page 11, the examiner responds Iwasaki discloses connectivity paths as in col. 4, lines 35-46.

In response to applicants' argument Iwasaki does not teach a signal transfer description argued in page 12, the examiner responds Iwasaki discloses a signal transfer description such as a signal transfer description for the clock signal from clock source to receive components (col. 8, lines 49-60, col. 11, lines 5-35, col. 12, lines 30-49). Such data transfer function or transfer description above is for components or for a portion of component interconnection.

Conclusion

- 1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 1. US patent no. 6,543,041, issued to Scheffer et al, on Apr. 2003

2. US patent application publication no. 2002/0162086, issued to Morgan, David, on Oct. 2002

- 3. US patent application publication no. 2005/0204235, issued to Kretchmer et al, on Sept. 2005
- 2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Phan whose telephone number is 571-272-3783. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on 571-272-2279. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/087,297 Page 8

Art Unit: 2128

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 09, 2006

Thai Phan

Patent Examiner